

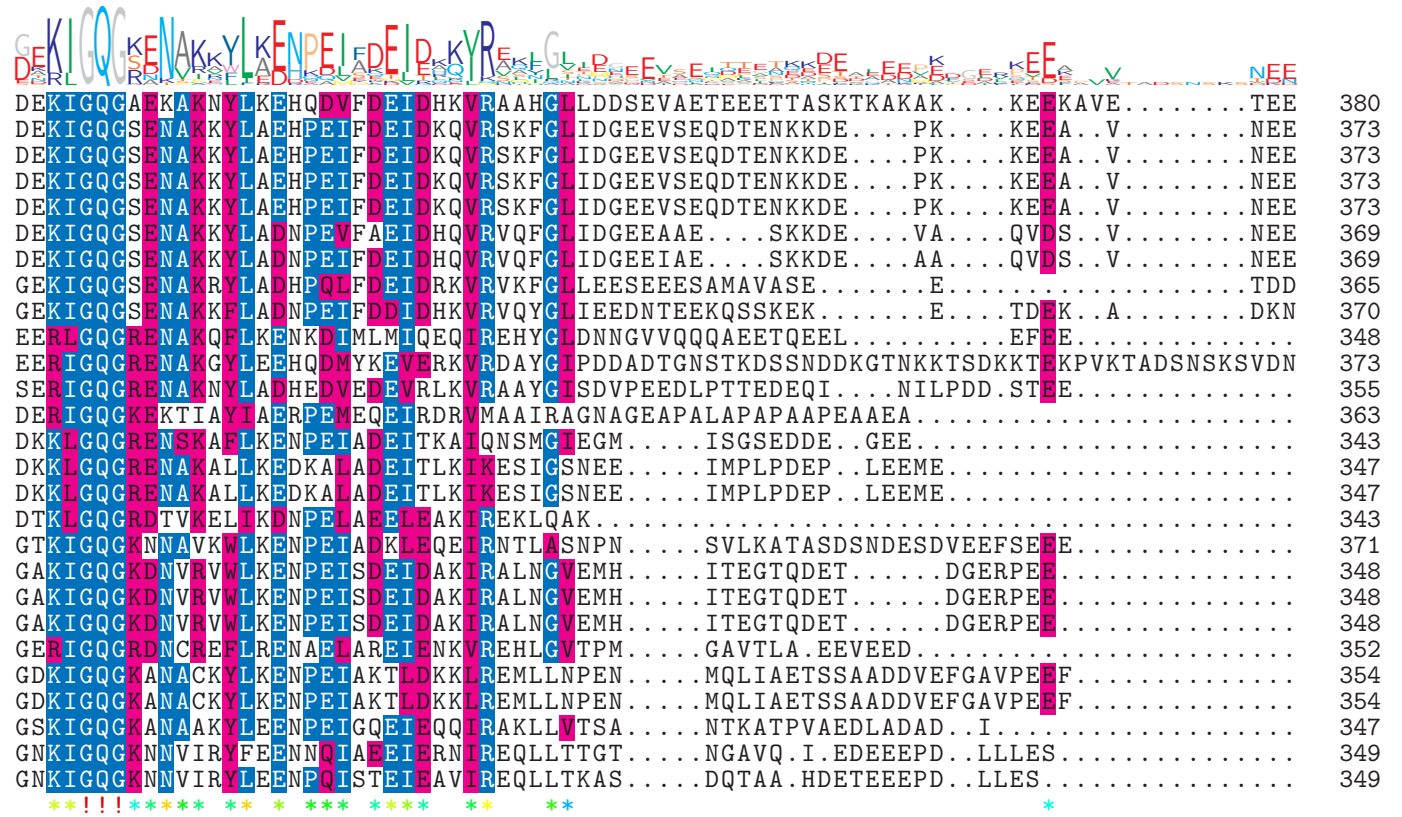
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLG	EA	.ANQKVS	VSSGSLALD	I	ALGAGGYPKGR	74			
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGSGGYPKGR	73			
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKF	DERKALDDALKN	IEKD	FGKGAVMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGAGGYPKGR	73			
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKF	DERKALDDALKN	IEKD	FGKGAVMRLG	ER	.AEQKVQVM	VSSGSLALD	I	ALGAGGYPKGR	73			
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQ	FGKGSIMKLG	EK	.TDTRISTV	PSGSLALD	I	ALGIGGYPRGR	58			
NTDB id 410785 GQR93 RS06845 WP 159298728.1	.....MADQRKVALDKALKS	IEKE	FGKGSIMRM	GDK	.ADTQIST	IPGSLALD	E	ALGVGGYPRGR	59			
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKN	FGKGSIMRM	GDK	.VDTQVST	VSSGSLALD	E	ALGVGGYPRGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1MSKDATKEISAPTD	ERSKAT	ETAMSQ	IEKA	FGKGSIMKLG	AE	.SKLDVQV	VSTGSLSLD	I	ALGVGGIPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKT	FGKGTILRL	GDK	.EVEQIDS	IGTGSVGLD	I	ALGIGGVPKGR	59			
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQ	IDKV	FGKGA	LVRLGDK	.QVEKID	ISTGSLGLD	I	ALGIGGVPKGR	61		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQ	IDKV	FGKGA	LVRLGDK	.QVEKID	ISTGSLGLD	I	ALGIGGVPKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTS	PNDDKKK	KALAAVLEK	LDKT	YKGTVMKLG	DGTVDHNI	IEV	IPSGSLGLD	I	ALGVGGYPKGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEP	EKKQ	QALEAAL	LAQ	IEKQ	FGKGSIMKLG	QT	.EQLD	IESVSTGSLGLD	I	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAAL	LAQ	IEKS	FGKGA	IMKMDGSQ	QEE	ENLE	ISTGSLGLD	I	ALGVGGLPRGR	60		
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NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAAAL	LAQ	IEKS	FGKGA	IMKMDGSQ	QEE	ENLE	ISTGSLGLD	I	ALGVGGLPRGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMS	A	EKK	KALAAAL	LAQ	IEKQ	FGKGSIMKMG	DA	.EVEPVQV	VSTGSLGLD	I	ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAAL	LGQ	IEKQ	FGKGSIMRLG	DN	.RAMDVET	ISTGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAAL	LGQ	IEKQ	FGKGSIMRLG	DN	.RAMDVET	ISTGSLSLD	I	ALGAGGLPMGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAAL	LGQ	IEKQ	FGKGA	VMRMDH	.DRQAIP	SISTGSLGLD	I	ALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	Q	IEKQ	FGKNTVMRLG	DN	.TVQAVEA	VSTGSLTLD	I	ALGIGGLPKGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDNKSKALQAALS	Q	IEKQ	FGKNTVMRLG	DN	.TVQAVEA	VSTGSLTLD	I	ALGIGGLPKGR	59			
consensus		*** **	**	**!	*!!*****	*	***!!*!!*!!*!!	!!	!!*!!				

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 410785 GQR93 RS06845 WP 159298728.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 consensus



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	Y L D L G D E L E I E L E E	
NTDB id 600 KW2 RS01765 WP 011675413.1	I E L E L E D	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	V P L D L G D E L E I E I E E	388
NTDB id 228 SPD RS09265 WP 001085462.1	V P L D L G D E L E I E I E E	388
NTDB id 194 SPR RS08825 WP 001085462.1	V P L D L G D E L E I E I E E	388
NTDB id 159 SP RS09750 WP 001085462.1	V P L D L G D E L E I E I E E	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V T L D L G D E L E I E I E E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	V T L D L G D E L E I E I E E	384
NTDB id 453 Spy49 1753c ACI62003.1	L A L D L D N G I E I E D . .	378
NTDB id 408 SMU RS09530 WP 002262392.1	L V L E L D D T I E L E D . .	383
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 410785 GQR93 RS06845 WP 159298728.1	I D L N I G K	380
NTDB id 625 LCA RS02525 WP 011374196.1	355
NTDB id 1313 DR RS12030 WP 010888966.1	363
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NTDB id 1211 C694 RS00795 WP 000963128.1	347
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NTDB id 1334 RAOC RS04870 WP 004918236.1	343
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NTDB id 1427 RS RS02760 WP 011000510.1	352
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NTDB id 1205 PSJM300 05545 AFN77183.1	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	349

consensus

- X non conserved
- X similar
- X ≥ 50% conserved